```
PPPPPPPPPPP          AAAAAAAAA          SSSSSSSSSSSS  RRRRRRRRRRR    TTTTTTTTTTTTTTT  LLL
PPPPPPPPPPPP         AAAAAAAAA          SSSSSSSSSSSS  RRRRRRRRRRR    TTTTTTTTTTTTTTT  LLL
PPPPPPPPPPPP         AAAAAAAAA          SSSSSSSSSSSS  RRRRRRRRRRR    TTTTTTTTTTTTTTT  LLL
PPP         PPP  AAA         AAA  SSS                 RRR       RRR          TTT       LLL
PPP         PPP  AAA         AAA  SSS                 RRR       RRR          TTT       LLL
PPP         PPP  AAA         AAA  SSS                 RRR       RRR          TTT       LLL
PPP         PPP  AAA         AAA  SSS                 RRR       RRR          TTT       LLL
PPP         PPP  AAA         AAA  SSS                 RRR       RRR          TTT       LLL
PPP         PPP  AAA         AAA  SSS                 RRR       RRR          TTT       LLL
PPPPPPPPPPPP     AAA         AAA       SSSSSSSS       RRRRRRRRRRR            TTT       LLL
PPPPPPPPPPPP     AAA         AAA       SSSSSSSSS      RRRRRRRRRRR            TTT       LLL
PPPPPPPPPPPP     AAA         AAA       SSSSSSSS       RRRRRRRRRRR            TTT       LLL
PPP              AAAAAAAAAAAAAAAA            SSS  RRR  RRR                   TTT       LLL
PPP              AAAAAAAAAAAAAAAA            SSS  RRR  RRR                   TTT       LLL
PPP              AAAAAAAAAAAAAAAA            SSS  RRR  RRR                   TTT       LLL
PPP              AAA         AAA             SSS  RRR       RRR             TTT       LLL
PPP              AAA         AAA             SSS  RRR       RRR             TTT       LLL
PPP              AAA         AAA             SSS  RRR       RRR             TTT       LLL
PPP              AAA         AAA  SSSSSSSSSSSS    RRR       RRR             TTT  LLLLLLLLLLLLLLLL
PPP              AAA         AAA  SSSSSSSSSSSS    RRR       RRR             TTT  LLLLLLLLLLLLLLLL
PPP              AAA         AAA  SSSSSSSSSSSS    RRR       RRR             TTT  LLLLLLLLLLLLLLLL
```

```
PPPPPPPP      AAAAAA      SSSSSSSS  EEEEEEEEEE    000000    LL          NN      NN    222222
PPPPPPPP      AAAAAA      SSSSSSSS  EEEEEEEEEE    000000    LL          NN      NN    222222
PP      PP    AA    AA    SS        EE          00    00    LL          NN      NN  22      22
PP      PP    AA    AA    SS        EE          00    00    LL          NN      NN  22      22
PP      PP    AA    AA    SS        EE          00    00    LL          NNNN    NN          22
PP      PP    AA    AA    SS        EE          00    00    LL          NNNN    NN          22
PPPPPPPP      AA    AA      SSSSSS  EEEEEEE      00    00    LL          NN  NN  NN        22
PPPPPPPP      AA    AA      SSSSSS  EEEEEEE      00    00    LL          NN  NN  NN        22
PP          AAAAAAAAAA          SS  EE          00    00    LL          NN    NNNN      22
PP          AAAAAAAAAA          SS  EE          00    00    LL          NN    NNNN      22
PP          AA    AA            SS  EE          00    00    LL          NN      NN      22
PP          AA    AA            SS  EE          00    00    LL          NN      NN      22        ....
PP          AA    AA  SSSSSSSS  EEEEEEEEEE    000000    LLLLLLLLL  NN      NN  2222222222      ....
PP          AA    AA  SSSSSSSS  EEEEEEEEEE    000000    LLLLLLLLL  NN      NN  2222222222      ....
```

```
LL            IIIIII      SSSSSSSS
LL            IIIIII      SSSSSSSS
LL              II        SS
LL              II        SS
LL              II        SS
LL              II        SS
LL              II          SSSSSS
LL              II          SSSSSS
LL              II                SS
LL              II                SS
LL              II                SS
LL              II                SS
LLLLLLLLL    IIIIII      SSSSSSSS
LLLLLLLLL    IIIIII      SSSSSSSS
```

```
    1    0001  0  MODULE PASSEOLN2 ( %TITLE 'Inquire if end-of-line'
    2    0002  0                     IDENT = '1-001'                    ! File: PASEOLN2.B32 Edit: SBL1001
    3    0003  0                   ) =
    4    0004  1  BEGIN
    5    0005  1  !
    6    0006  1  !*****************************************************************************
    7    0007  1  !*                                                                          *
    8    0008  1  !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                 *
    9    0009  1  !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                  *
   10    0010  1  !*  ALL RIGHTS RESERVED.                                                    *
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   15    0015  1  !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY   *
   16    0016  1  !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY   *
   17    0017  1  !*  TRANSFERRED.                                                            *
   18    0018  1  !*                                                                          *
   19    0019  1  !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE   *
   20    0020  1  !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT   *
   21    0021  1  !*  CORPORATION.                                                            *
   22    0022  1  !*                                                                          *
   23    0023  1  !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS   *
   24    0024  1  !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                 *
   25    0025  1  !*                                                                          *
   26    0026  1  !*                                                                          *
   27    0027  1  !*****************************************************************************
   28    0028  1  !
   29    0029  1
   30    0030  1  !++
   31    0031  1  !  FACILITY:     Pascal Language Support
   32    0032  1  !
   33    0033  1  !  ABSTRACT:
   34    0034  1  !
   35    0035  1  !        This procedure implements the Pascal EOLN procedure.  It
   36    0036  1  !        is not called directly from compiled code, but rather can
   37    0037  1  !        be passed as a procedure by users.
   38    0038  1  !
   39    0039  1  !  ENVIRONMENT:  User mode - AST reentrant
   40    0040  1  !
   41    0041  1  !  AUTHOR: Steven B. Lionel, CREATION DATE: 1-April-1981
   42    0042  1  !
   43    0043  1  !  MODIFIED BY:
   44    0044  1  !
   45    0045  1  !  1-001 - Original.  SBL 1-April-1981
   46    0046  1  !--
   47    0047  1
```

```
   49    0048   1  %SBTTL 'Declarations'
   50    0049   1  !
   51    0050   1  ! PROLOGUE DEFINITIONS:
   52    0051   1  !
   53    0052   1
   54    0053   1  REQUIRE 'RTLIN:PASPROLOG';                        ! Externals, linkages, PSECTs, structures
   55    0117   1
   56    0118   1
   57    0119   1  !
   58    0120   1  ! TABLE OF CONTENTS:
   59    0121   1  !
   60    0122   1
   61    0123   1  FORWARD ROUTINE
   62    0124   1      PAS$EOLN2;                                    ! Inquire if end-of-line
   63    0125   1
   64    0126   1  !
   65    0127   1  ! MACROS:
   66    0128   1  !
   67    0129   1  !     NONE
   68    0130   1  !
   69    0131   1  ! EQUATED SYMBOLS:
   70    0132   1  !
   71    0133   1  !     NONE
   72    0134   1  !
   73    0135   1  ! FIELDS:
   74    0136   1  !
   75    0137   1  !     NONE
   76    0138   1  !
   77    0139   1  ! OWN STORAGE:
   78    0140   1  !
   79    0141   1  !     NONE
```

```
  81    0142  1  %SBTTL 'PASSEOLN2 - Inquire if end-of-file'
  82    0143  1  GLOBAL ROUTINE PASSEOLN2 (                              ! Inquire if end-of-file
  83    0144  1      PFV: REF $PAS$PFV_FILE_VARIABLE                     ! File variable
  84    0145  1      ) =
  85    0146  1
  86    0147  1  !++
  87    0148  1  ! FUNCTIONAL DESCRIPTION:
  88    0149  1  !
  89    0150  1  !       This procedure returns a boolean value TRUE if the given file
  90    0151  1  !       is at end-of-line, FALSE otherwise.
  91    0152  1  !
  92    0153  1  ! CALLING SEQUENCE:
  93    0154  1  !
  94    0155  1  !       Eoln.wv.v = PAS$EOLN2 (PFV.mr.r)
  95    0156  1  !
  96    0157  1  ! FORMAL PARAMETERS:
  97    0158  1  !
  98    0159  1  !       PFV               - The Pascal File Variable (PFV) passed by reference.
  99    0160  1  !                           The structure of the PFV is defined in PASPFV.REQ.
 100    0161  1  !
 101    0162  1  ! IMPLICIT INPUTS:
 102    0163  1  !
 103    0164  1  !       NONE
 104    0165  1  !
 105    0166  1  ! IMPLICIT OUTPUTS:
 106    0167  1  !
 107    0168  1  !       NONE
 108    0169  1  !
 109    0170  1  ! ROUTINE VALUE:
 110    0171  1  !
 111    0172  1  !       Boolean TRUE (1) if file is at end-of-file.
 112    0173  1  !       Boolean FALSE (0) if file is not at end-of-file.
 113    0174  1  !
 114    0175  1  ! SIDE EFFECTS:
 115    0176  1  !
 116    0177  1  !       Resolves any lazy lookahead in progress, possibly opening the file.
 117    0178  1  !
 118    0179  1  ! SIGNALLED ERRORS:
 119    0180  1  !
 120    0181  1  !       FILNOTOPE - file not open
 121    0182  1  !       FILNOTTEX - file is not a textfile
 122    0183  1  !
 123    0184  1  !--
 124    0185  1
 125    0186  2      BEGIN
 126    0187  2
 127    0188  2      LOCAL
 128    0189  2          FCB: REF $PAS$FCB_CONTROL_BLOCK,! File control block
 129    0190  2          RESULT,                         ! Function result
 130    0191  2          PFV_ADDR: VOLATILE,             ! Enable argument
 131    0192  2          UNWIND_ACT: VOLATILE;           ! Enable argument
 132    0193  2
 133    0194  2      ENABLE
 134    0195  2          PAS$$IO_HANDLER (PFV_ADDR, UNWIND_ACT);
 135    0196  2
 136    0197  2      !+
 137    0198  2      ! Set enable argument for PfV address.
```

PAS$EOLN2   Inquire if end-of-Line   H 5
1-001   PAS$EOLN2 - Inquire if end-of-file   16-Sep-1984 01:31:43   VAX-11 Bliss-32 V4.0-742   Page 4
                                                                   14-Sep-1984 12:51:26   [PASRTL.SRC]PASEOLN2.B32;1   (3)

```
 138    0199   2        !-
 139    0200   2
 140    0201   2        PFV_ADDR = PFV [PFV$R_PFV]; ! Set enable argument
 141    0202   2
 142    0203   2        !+
 143    0204   2        ! Validate and lock PFV.
 144    0205   2        !-
 145    0206   2
 146    0207   2        PAS$$VALIDATE_PFV (PFV [PFV$R_PFV]; FCB);
 147    0208   2
 148    0209   2        !+
 149    0210   2        ! Set unwind action to unlock file.
 150    0211   2        !-
 151    0212   2
 152    0213   2        UNWIND_ACT = PAS$K_UNWIND_UNLOCK;
 153    0214   2
 154    0215   2        !+
 155    0216   2        ! Call PAS$$LOOK_AHEAD to resolve lazy lookahead.
 156    0217   2        !-
 157    0218   2
 158    0219   2        IF NOT .PFV [PFV$V_VALID]
 159    0220   2        THEN
 160    0221   2            PAS$$LOOK_AHEAD (PFV [PFV$R_PFV], FCB [FCB$R_FCB]; FCB);
 161    0222   2
 162    0223   2        !+
 163    0224   2        ! Verify that file is open.
 164    0225   2        !-
 165    0226   2
 166    0227   2        IF NOT .PFV [PFV$V_OPEN]     ! Not open
 167    0228   2        THEN
 168    0229   2            $PAS$IO_ERROR (PAS$_FILNOTOPE,0);
 169    0230   2
 170    0231   2        !+
 171    0232   2        ! Verify that this is a textfile
 172    0233   2        !-
 173    0234   2
 174    0235   2        IF NOT .FCB [FCB$V_TEXT]
 175    0236   2        THEN
 176    0237   2            $PAS$IO_ERROR (PAS$_FILNOTTEX,0);
 177    0238   2
 178    0239   2        !+
 179    0240   2        ! Determine if EOLN
 180    0241   2        !-
 181    0242   2
 182    0243   2        RESULT = .PFV [PFV$V_EOLN];
 183    0244   2
 184    0245   2        !+
 185    0246   2        ! Indicate successful completion
 186    0247   2        ! Unlock file and return.
 187    0248   2        !-
 188    0249   2
 189    0250   2        FCB [FCB$L_STATUS] = 0;
 190    0251   2        PFV [PFV$V_LOCK] = 0;
 191    0252   2
 192    0253   2        RETURN .RESULT;
 193    0254   2
 194    0255   1        END;                                          ! End of routine PAS$EOLN2
```

PAS$EOLN2   Inquire if end-of-line   I 5
1-001   PAS$EOLN2 - Inquire if end-of-file   16-Sep-1984 01:31:43   VAX-11 Bliss-32 V4.0-742   Page 5
                                                         14-Sep-1984 12:51:26   [PASRTL.SRC]PASEOLN2.B32;1   (3)

```
                                                            .TITLE  PAS$EOLN2 Inquire if end-of-Line
                                                            .IDENT  \1-001\

                                                            .EXTRN  PAS$EOLN2, PAS$$IO_HANDLER
                                                            .EXTRN  PAS$$VALIDATE_PFV
                                                            .EXTRN  PAS$$LOOK_AHEAD
                                                            .EXTRN  PAS$$SIGNAL, PAS$K_FILNOTOPE
                                                            .EXTRN  PAS$K_FILNOTTEX

                                                            .PSECT  _PAS$CODE,NOWRT,  SHR,  PIC,2

                                 00CC 00000                 .ENTRY  PAS$EOLN2, Save R2,R3,R6,R7
                        5E    04  C2 00002                  SUBL2   #4, SP                                  : 0143
                              7E  94 00005                  CLRL    UNWIND_ACT                              : 0186
                    04  AE  D4 00007                        CLRL    PFV_ADDR
                6D  004E CF  DE 0000A                       MOVAL   6$, (FP)                                : 0201
                56    04  AC  D0 0000F                      MOVL    PFV, R6
            04  AE    56  D0 00013                          MOVL    R6, PFV_ADDR                            : 0207
                00000000G 00  16 00017                      JSB     PAS$$VALIDATE_PFV                       : 0213
                        6E  01  D0 0001D                     MOVL    #1, UNWIND_ACT                          : 0219
                        06  06  A6  E8 00020                 BLBS    6(R6), 1$                               : 0221
                00000000G 00  16 00024                      JSB     PAS$$LOOK_AHEAD
                08    07  A6  05  E0 0002A 1$:               BBS     #5, 7(R6), 2$                           : 0227
                              7E  D4 0002F                  CLRL    -(SP)                                   : 0229
                        7E  00G 8F  9A 00031                 MOVZBL  #PAS$K_FILNOTOPE, -(SP)
                              0A  11 00035                  BRB     3$
                        0F  F8  A7  E8 00037 2$:             BLBS    -8(FCB), 4$                             : 0235
                              7E  D4 0003B                  CLRL    -(SP)                                   : 0237
                        7E  00G 8F  9A 0003D                 MOVZBL  #PAS$K_FILNOTTEX, -(SP)
                00000000G 00  02  FB 00041 3$:               CALLS   #2, PAS$$SIGNAL
                              0F  11 00048                  BRB     5$
    50      06  A6        01  03  EF 0004A 4$:               EXTZV   #3, #1, 6(R6), RESULT                  : 0243
                        D4  A7  D4 00050                     CLRL    -44(FCB)                               : 0250
                07  A6    80  8F  8A 00053                   BICB2   #128, 7(R6)                            : 0251
                              04 00058                      RET                                            : 0253
                        50  D4 00059 5$:                     CLRL    R0                                     : 0255
                              04 0005B                      RET
                            0000 0005C 6$:                   .WORD   Save nothing                           : 0186
                    50    08  AC  D0 0005E                  MOVL    8(AP), R0
                    50    04  A0  D0 00062                  MOVL    4(R0), R0
                        F8  A0  9F 00066                    PUSHAB  UNWIND_ACT
                        FC  A0  9F 00069                    PUSHAB  PFV_ADDR
                              02  DD 0006C                 PUSHL   #2
                              5E  DD 0006E                 PUSHL   SP
                7E    04  AC  7D 00070                      MOVQ    4(AP), -(SP)
                00000000G 00  03  FB 00074                  CALLS   #3, PAS$$IO_HANDLER
                              04 0007B                      RET
```

; Routine Size: 124 bytes,   Routine Base: _PAS$CODE + 0000

; 195   0256 1
; 196   0257 1 !<BLF/PAGE>

PASSEOLN2   Inquire if end-of-line   J 5
1-001   PASSEOLN2 - Inquire if end-of-file   16-Sep-1984 01:31:43   VAX-11 Bliss-32 V4.0-742   Page 6
                                                  14-Sep-1984 12:51:26   [PASRTL.SRC]PASEOLN2.B32;1   (4)

```
; 198       0258 1 END                              ! End of module PAS$EOLN2
; 199       0259 1
; 200       0260 0 ELUDOM
```

PSECT SUMMARY

Name	Bytes	Attributes
_PAS$CODE	124	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_255DUA28:[SYSLIB]STARLET.L32;1	9776	0	0	581	00:00.9
_255DUA28:[PASRTL.OBJ]PASLIB.L32;1	427	91	21	33	00:00.4

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS$:PASEOLN2/OBJ=OBJ$:PASEOLN2 MSRC$:PASEOLN2/UPDATE=(ENH$:PASEOLN2)

```
; Size:          124 code + 0 data bytes
; Run Time:         00:04.8
; Elapsed Time:     00:20.1
; Lines/CPU Min:    3277
; Lexemes/CPU-Min: 10966
; Memory Used:  69 pages
; Compilation Complete
```

PASFVOUTP
LIS

PASEOLN2
LIS

PASHEAP
LIS

PASHANDLE
LIS

PASFAB
LIS

PASGET
LIS

PASCVTRT
LIS

PASDATE
LIS

PASEOF2
LIS

PASFINDK
LIS

PASFVINPU
LIS

PASEXPO
LIS

PASGOTO
LIS

PASFILEUT
LIS

PASHALT
LIS

PASDELETE
LIS

PASFIND2
LIS